Fig.1.

Cycloartenol

Cholesterol

↓ SMT1

24-Methylene cycloartenol

Demethylation system (DS)

Cycloeucalenol

24-Methylene lophenol

24-Ethylidene lophenol

DS

DS

Episterol

Δ7-Avenasterol

Campesterol

Sitosterol
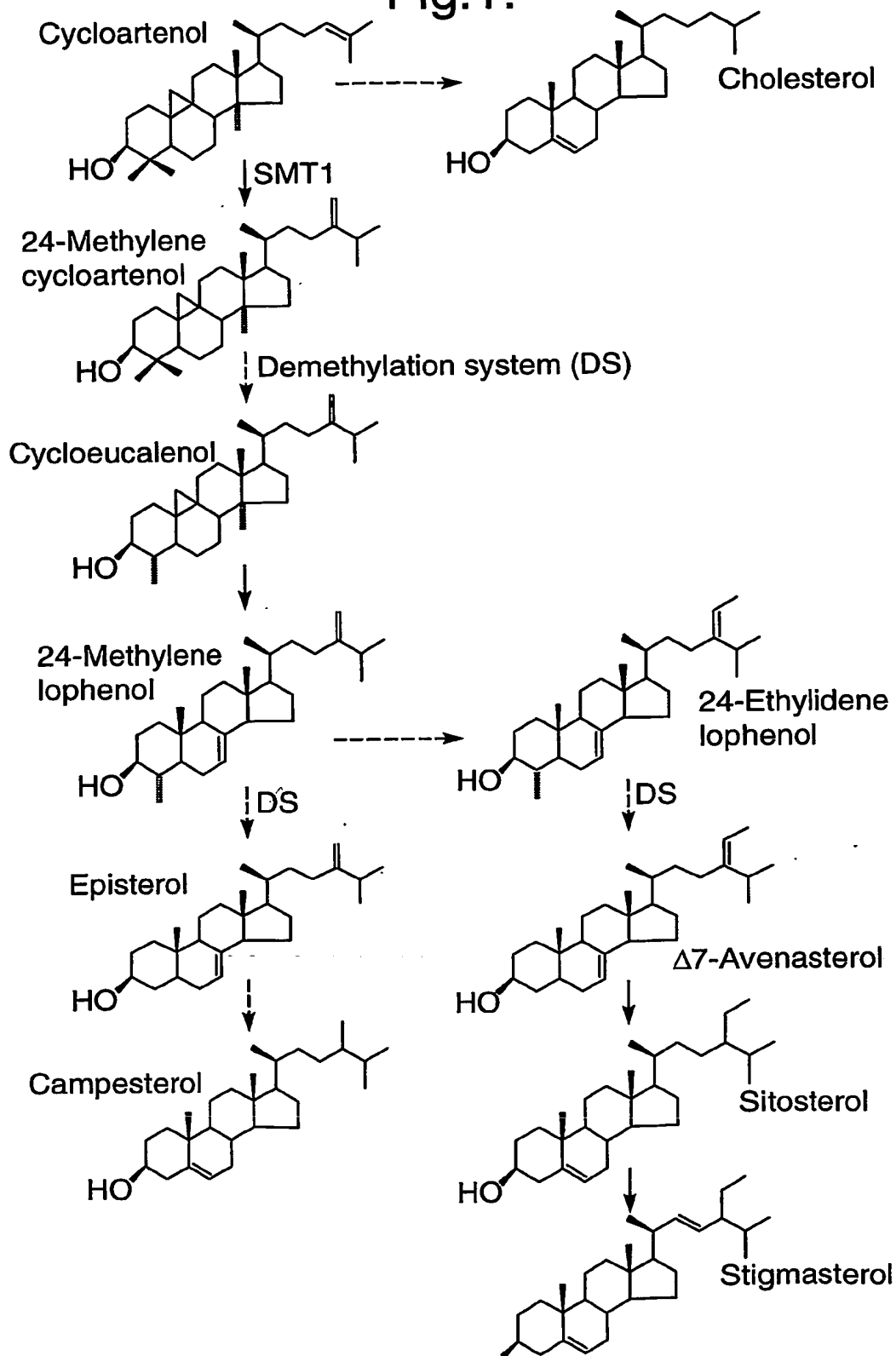
Stigmasterol

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Fig.2.

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  1  ATGCAGTACC TTGTTACGCA TTTCAGTGAC TTTCAACTGG CGTGTATTGG GAGTTTTATA
        M  Q  Y    L  V  T    H  F  S  D    F  Q  L    A  C  I    G  S  F  I

 61  CTTCATGAAA GCGTGTTTTT CTTGTCTGGA CTCCCTTACA TTTTCCTAGA AAGGACTGGT
        L  H  E    S  V  F    F  L  S  G    L  P  Y    I  F  L    E  R  T  G

121  TTTCTGAGCA ACTACAAAAT TCAGACCAAA AGTAATACTC CTGAAGCCCA GGGAAAATGC
        F  L  S    N  Y  K    I  Q  T  K    S  N  T    P  E  A    Q  G  K  C

181  ATTGCTCGAC TATTACTTTA CCATTGCTGC GTAAACTTGC CCCTCATGAT GGCGTCGTAT
        I  A  R·   L  L  L    Y  H  C  C    V  N  L    P  L  M    M  A  S  Y

241  CCTGTATTCA GATTCATGGG CATGGAAAGC AGTTTTCCTC TGCCGTCCTG GAAAGTGGTG
        P  V  F    R  F  M    G  M  E  S    S  F  P    L  P  S    W  K  V  V

301  TCTGCCCAGA TCTTATTCTA CTTCATCATT GAGGATTTTG TATTCTATTG GGGTCACAGG
        S  A  Q    I  L  F    Y  F  I  I    E  D  F    V  F  Y    W  G  H  R

361  ATCTTGCATA CTAAATGGCT CTACAAGAAC GTGCACAGTG TGCATCATGA GTACGCGACA
        I  L  H    T  K  W    L  Y  K  N    V  H  S    V  H  H    E  Y  A  T

421  CCGTTTGGTT TGACATCAGA ATATGCTCAT CCCGCTGAAA TTCTGTTCCT TGGTTTTGCT
        P  F  G    L  T  S    E  Y  A  H    P  A  E    I  L  F    L  G  F  A

481  ACCATTGTTG GTCCGGCTCT CACCGGGCCT CACCTGATCA CCCTTTGGTT ATGGATGATG
        T  I  V    G  P  A    L  T  G  P    H  L  I    T  L  W    L  W  M  M

541  CTCAGAGTTA TTGAGACAGT TGAGGCACAT TGTGGTTATC ATTTCCCATG GAGCCCCTCG
        L  R  V    I  E  T    V  E  A    H  C  G  Y    H  F  P    W  S  P·S

601  AATTTTCTTC CTCTATACGG CGGTGCTGAC TTCCATGACT ACCATCATCG ATTACTCTAC
        N  F  L    P  L  Y    G  G  A  D    F  H  D    Y  H  H    R  L  L  Y

661  ACAAAGTCTG GCAACTACTC ATCAACGTTT GTTTACATGG ACTGGATCTT TGGCACCGAT
        T  K  S    G  N  Y    S  S  T  F    V  Y  M    D  W  I    F  G  T  D

721  AAAGGTTACA GAAAACTTAA GGCCCTAAAA GAAACCTGA
        K  G  Y    R  K  L    K  A  L  K    E  T  -
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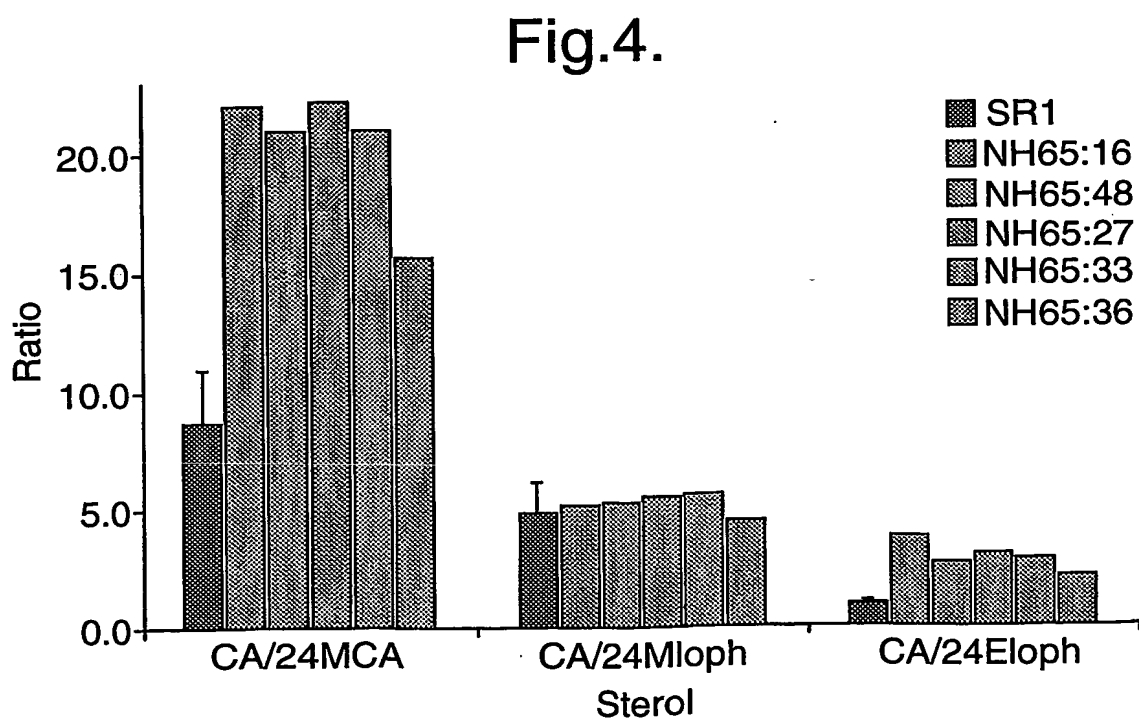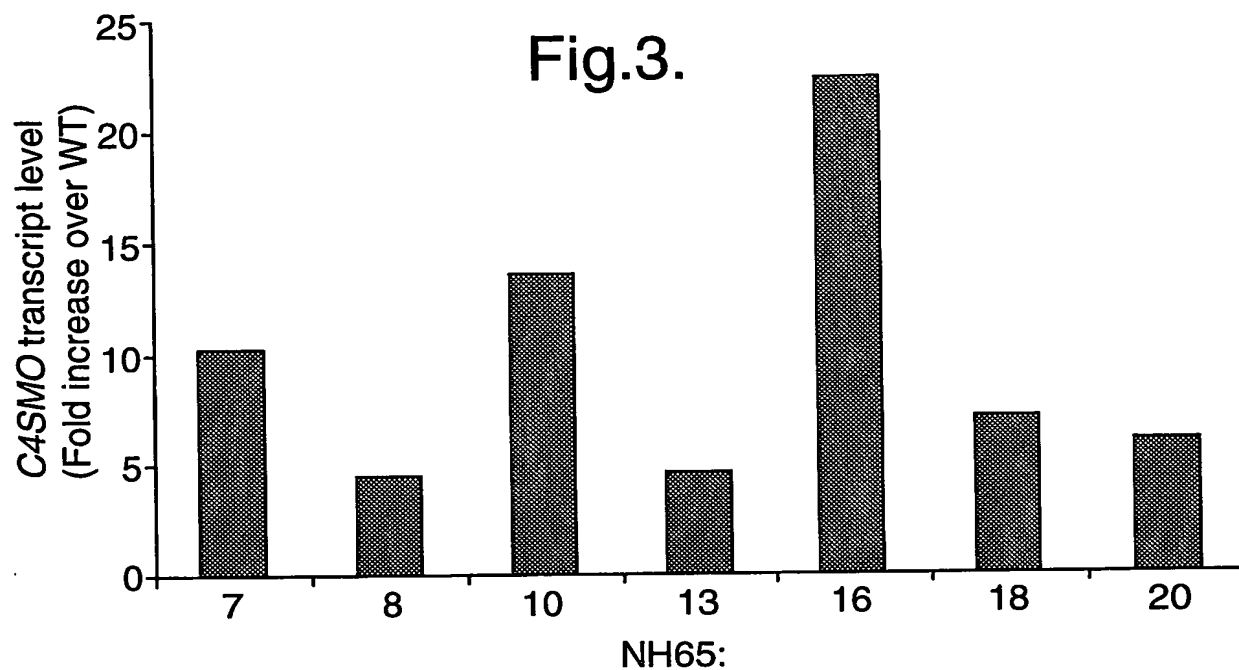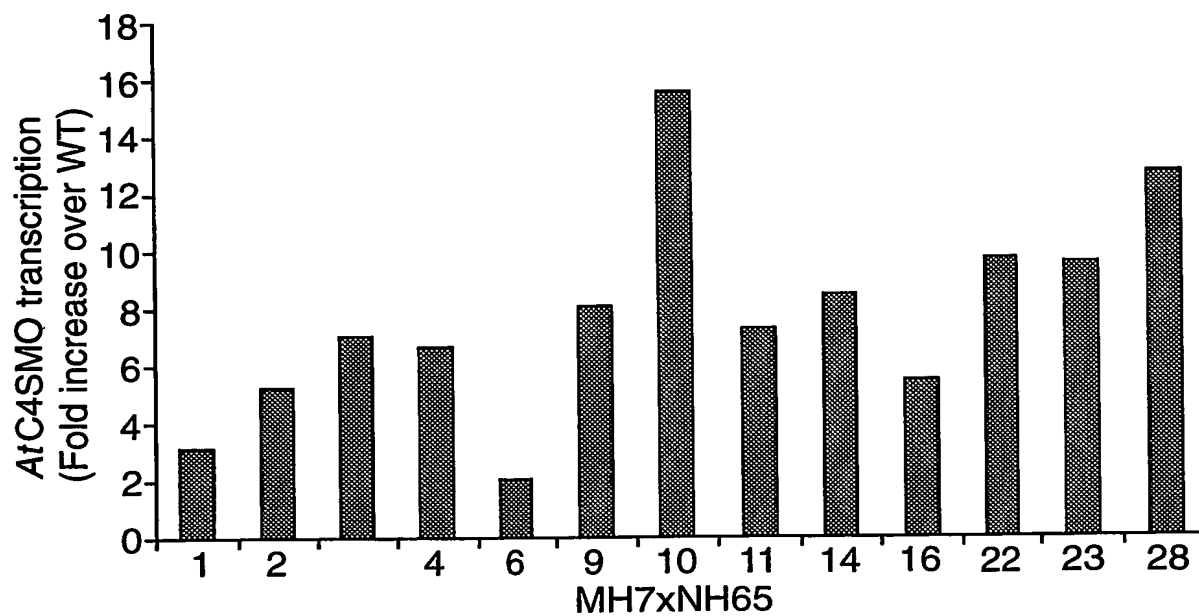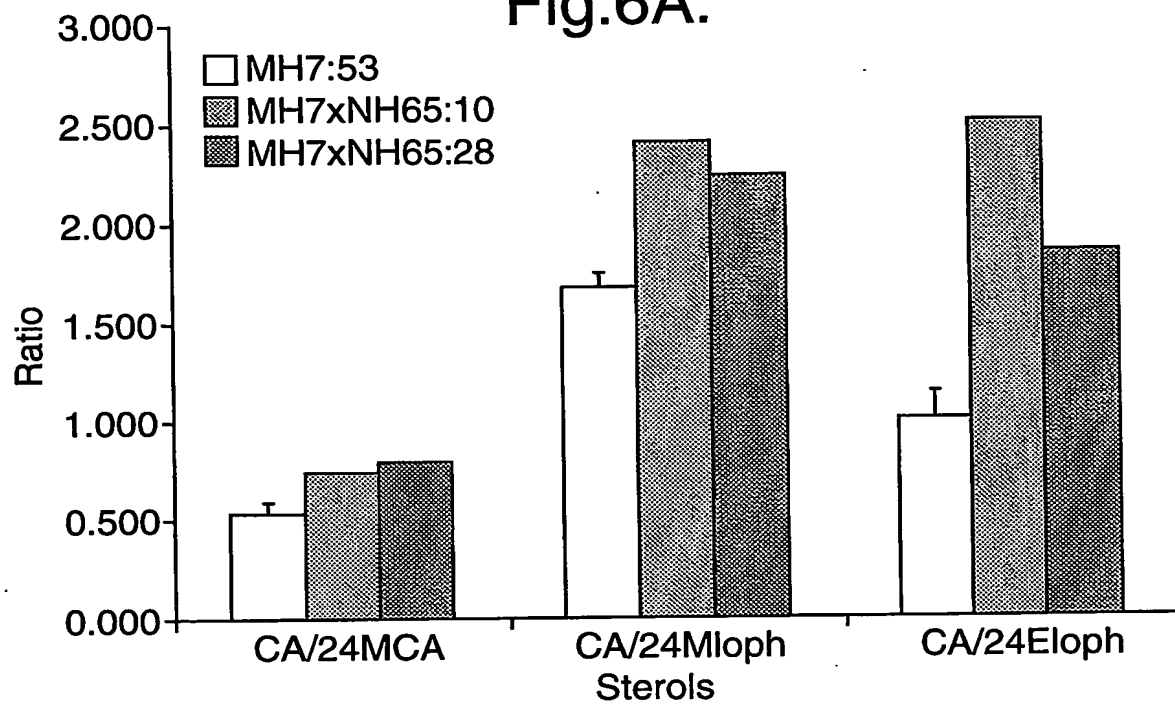
Fig.3.

Fig.4.

Fig.5.

Fig.6A.

Fig.6B.